

Abstract of the Disclosure

Disclosed herein are vectors and methods for use in the prevention and treatment of acne. Specifically exemplified are adenovirus vectors or plasmid DNA that encode a variety of target
5 antigens from *propionibacterium acnes* with or without cytokines, chemokines or co-stimulatory receptors. These vectors in both viral and DNA vector form are prolific molecular adjuvants and can be used in combination with vectors and DNA encoding the lipase, hyaluronidase, phosphatase and other genes on the same operon, to elicit protective immune responses against colonization of the bacterium in the skin follicles.